

Product datasheet for **MC221171**

Cpeb4 (NM_026252) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpeb4 (NM_026252) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpeb4
Synonyms:	Cpe-bp4; Cpeb-4; mCPEB-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221171 representing NM_026252
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGGATTACGGGTTTGGAGTCTAGTGCAAAGCAATACTGGGAATAAATCTGCTTTTCCAGTCCGAT
 TCCATCCACATCTGCAGCCTCCACACCATCACAAAATGCCACCCCAACCCTGCTGCTTTTATAAATAA
 TAACACAGCTGCCAATGGCAGCAGTCTGGGTACGCTGGCTCTTTCCTGCCCGGCTACTCATAACATT
 CAGGATGAGATCTTGGGGTCAAAAAAGCAAAAAGTCAACAGCAAGAACAACAAGACCCTTTAGAAAAGC
 AACAGCTCTCCCGAGTCCAGGTCCAGGAAGCTGGAATACTGCCTGAAACTGAAAAGGCAAAAAGCTGAAGA
 AAATCCAGGGGACAGTTCTTCAGAAAACAGCAACGGAAAAGAAAACACTACGCATTGAATCACCAGTGTG
 ACAGGGTTTGATTACCAAGAAGCCACCGGTCTCGGGACTCCACCCAACCCTTGACATCCAGTGCATCGT
 CCCTTACTGGTTTCAGTAACTGGTCAGCAGCGATAGCACCTTCTCCTCCACTATAATCAATGAAGATGC
 AAGTTTCTTCCACAGGGAGGGTCCCTGGCGCTTCAGCTAATAATGGTGTCTCTTGTTCAAAATTTT
 CCCCATCATGTCAGCCCTGGCTTTGGTGGTAGCTTCTCCCTCAGATCGGGCCTCTCTCCAGCACCATC
 CTCATCACCCCATTTCCAGCACCATCACAGCCAGCATCAGCAGCAGAGGAGGTCTCTGCCAGTCCCA
 CCCCCACCTTTACACATAGAAGTGTCTTTAACCAGCTGCCTCATTTGGCGAATAATCTTAACAAA
 CCTCCTTCTCCATGGAGCAGCTACCAGAGTCTTCTCCAACCCCTCTTCTTCTGGAGCCAGGAGGTG
 GCGGCTACGGTGGCTGGGAGCATCTCAAGGCCGGATCACCGCAGAGGGCTGAACGGTGGAAATAACACC
 CCTGAACCTCAATCTCACCTTTGAAGAAAATTCGCAAGCAATCATATTCAGTCCAGAAGTATGCTCGC
 CCTAGCTCAGCCTTTGCTCCAAAATCCTGGATGGAAGATAGCTTGAACAGGGCTGACAACATTTTCCTT
 TTCCGGAACGCCAGGACGTTTGACATGCACTACTGGAGAGCTCACTCATTGACATAATGAGAGCTGA
 AAATGATTCCATTAAAGGTCGTCTAAACTATTCATACCCAGGATCCGATAGTTCTCTGCTTATTAATGCA
 AGGACTTATGGCGAAGGAGAGGTGAGTCTTATTGTTCCGATGGAAGATGGATTCTGGATGATGGCC
 GTGGGGATCAACCTCTTCATAGTGGTCTGGGGTCACTCACTGCTTCACTCACCAGAATGGGGAGAGAGT
 GGAACGATACTCTCGAAAGTGTGGTGGGTTGGCTCCTGATATTGATGAAGATGAGATCACAGCT
 AGTTTCCGTCGCTTTGGCCCTTTGATTGTGGATTGGCCTCATAAGGCAGAGAGCAATCTTATTTCCAC
 CAAAAGGCTATGCATTCCTGCTGTTTCAAGATGAAAGTCTGTTCAAGGCTCTCATTGATGCATGTATTGA
 AGAAGATGGAAAACCTTACCTGTGTATCAAGTCCAACCATCAAGGATAAACCAGTGCAGATCCGGCCC
 TGGAACTCAGTGACAGTACTTTGTGATGGATGGCTCACAGCCACTTGACCCACGAAAACAATATTTG
 TTGGTGGTGTTCCTCGACCATTACGAGCTGTGGAGCTTGAATGATAATGGATCGGCTGTATGGAGGCGT
 CTGCTATGCTGGAATCGATACTGACCCAGAGCTCAAATACCCAAAAGGAGCTGGAAGAGTCGCGTTTTCT
 AATCAACAGAGTTACATAGCTGATCAGTGCCCGCTTTGTTTCAAGTGCAGCATGGAGAGATAGATAAAC
 GGGTGGAGGTTAAGCCATATGCTTGGATGACCAGCTGTGTGTAATGTCAAGGGGCCGTTGTGGGGG
 GAAATTTGCTCCATTTTCTGTGCTAATGTTACCTGTCTGCAATATTACTGTGAATATTGCTGGGCTGCT
 ATTCACCTCTGTGCTGGCAGAGAATCCACAAGCCCTGGTGAAGGAAGGTGGTACCCGCTCGGCATA
 TTTCAATCCGCTGGAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_026252

Insert Size: 2190 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_026252.4</u> , <u>NP_080528.2</u>
RefSeq Size:	7655 bp
RefSeq ORF:	2190 bp
Locus ID:	67579
UniProt ID:	<u>Q7TN98</u>
Cytogenetics:	11 A4
Gene Summary:	<p>Sequence-specific RNA-binding protein that binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within the mRNA 3' UTR (PubMed:17024188). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (By similarity). Regulates activation of unfolded protein response (UPR) in the process of adaptation to ER stress in liver, by maintaining translation of CPE-regulated mRNAs in conditions in which global protein synthesis is inhibited (PubMed:28092655). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (By similarity). Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT (PubMed:22138752). Stimulates proliferation of melanocytes (By similarity). In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (PubMed:24386439).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>